Rohlin, V. A. A three-dimensional manifold is the boundary of a four-dimensional one. Doklady Akad. Nauk 'SSSR (N.S.) 81, 355-357 (1951). (Russian) The author sketches a proof that a compact, connected, orientable 3-manifold M2 is homeomorphic to the boundary of some orientable 4-manifold M⁴. (Manifolds and homeomorphisms are assumed to be "smooth," where "smooth" is not defined.) The indicated proof proceeds in three steps. (1) By a modification of an old construction due to Kneser, the proposition is correct if M' can be imbedded in 5-dimensional euclidean space Rs. Two operations O1 and O2 are defined: $O_1(M^2)$ is obtained from M^2 by boring out a tube and identifying the points of the bounding torus in pairs to make a Klein bottle, O1(M1) is obtained from M1 by boring out two tubes and matching the boundary tori with each other. Then (2) M3 must bound if Oi(M3) does. Finally (3) an arbitrary Ma may be transformed by a unite sequence of operations O; into an Mis that can be imbedded in Rs. It is stated that any compact, 3-manifold, orientable or not, is the boundary of some 4-manifold. (The announced results have been recently obtained also by R. Thom [Colloque de Topologie, Strassbourg, 1951, no. V] using a different method. Thom's paper also includes the generalization of (1) R. H. Fox (Princeton, N. J.). to higher dimensions.)

o to sure the	i Hank and wife	M. 11 1 200 Per J. 75	ety, why green	### TOTAL TO	विकास	In the current article the author more effective intrinsic formulat E. Stiefel and H. Whitney. Submitmogorov 14 Mar 52.	characteristic cycles of a smooth original: in the 1st characteristic cycles of a smooth original: in the 1st characteristic cycle Mk arise as homological invariants of flection of this manifold in manifold ented k-dimensional subspaces of vector in the 2d, the characteristic cycles singularities of systems of vector fit	TXXX.	"Intrinsic Definition of Charguragin," V. A. Rokhlin	USSR/Mathematics - Topology, (
•		225151				225 <u>T51</u> ne author gives a simpler and formulation, following r. Submitted by Acad A. N. Kol-	save 2 equiv definitions of a smooth oriented closed mani- teristic cycles of manifold invariants of tangential red in manifold H(k,1) of ori- aces of vector space Rk+1; istic cycles are cycles of of vector fields given in Mk.	No 3, pp 449-452	Characteristic Cycles of Pon-	Cycles 21 May 52

es communate de la company de la company

ROKHLIN, VA

259760

USSR/Mathematics - Interior Homologies 11 Apr 53

"Interior Homologies," V. A. Rokhlin, Arkhangel'sk Forestry Eng Inst im Kuybyshev

DAN SSSR, Vol 89, No 5, pp 789-792

An investigation continuing previous works of the author (DAN SSER, Vol 81, 35 (1951); Vol 84, 221 (1952)). Author shows that every oriented closed 3-dimensional manifold can serve as the boundary of an oriented 4-dimensional manifold and gives the homologic conditions necessary and sufficient for an oriented closed 4-dimensional manifold to be

259160

able to serve as the boundary of an oriented 5-dimensional manifold. (See S. Chern, Ann of Math, Vol 49, 362 (1948).) Presented by Acad A. N. Kolmogorov 18 Feb 53.

VA ROKHLIN,

SUBJECT

PG - 830 USSR/MATHEMATICS/Theory of functions CARD 1/2

AUTHOR TITLE

ROCHLIN V.A.

Metrical classification of measurable functions.

PERIODICAL

Uspechi mat. Nauk 12, 2, 169-174 (1957)

reviewed 6/1957

Let f and f' be real functions being defined in Lebesgue spaces M and M' (a Lebesgue space is a space being isomorphic to a line with a Lebesgue measure; compare also Rochlin, Mat.Sbornik, n. Ser. 25, 1, 107-150 (1949)). Let f and f' be of a metric type if there exists an isomorphic mapping T of M onto M' and a set NCM of measure zero such that f'(T(x)) = f(x) for all $x \in M-N$. Now the following metric invariants are introduced: 1) Let μ be the measure of H, then let $F_f = P_f(z) = \mu I_2$, where I_2 is the set of all $x \in \mathbb{N}$ in which f(x) < z. Let further \sum_{n} be the totality of those measurable sets ACM on which f assumes each of its values not more than n times. Then let $F_{f,n}(z)$ be the upper bound of the measures of all sets $A \in \Sigma_n$ which lie in X_z . The introduced functions have the following properties: A) F is a non-decreasing function which is defined on the whole straight line and which is continuous from the left side. We have

Uspechi mat. Nauk 12, 2, 169-174 (1957) CARD 2/2 PG - 830

$$\lim_{z \to -\infty} F(z) = 0, \qquad \lim_{z \to +\infty} F(z) = 1,$$

B) F_n are non-decreasing functions which are defined on the whole straight line and which are continuous from the left side. We have

$$\overline{F}_{n}(\Delta) \overline{F}(\Delta), \overline{F}_{n}(\Delta) \overline{F}_{n+1}(\Delta), \qquad (n=1,2,...)$$

$$\overline{F}_{n+1}(\Delta) - \overline{F}_{n}(\Delta) \overline{F}_{n}(\Delta) - \overline{F}_{n-1}(\Delta), \quad \overline{F}_{0}(\Delta) = 0,$$

where $\Lambda = [a,b)$ and $\overline{F}(\Lambda) = F(b)-F(a)$. The following theorem of classification is proved: Two measurable functions f and f' being defined on Lebesgue spaces belong to the same metric type then and only then if

then if $F_f = F_f$, and $F_{f,n} = F_{f',n}$ (n=1,2,3,...).

The functions $F = F_f$ and $F_n = F_{f,n}$ (n=1,2,3,...) have the properties A) and B). For every system of functions F, F_n with the properties A) and B) there exists a function f being defined on a Lebesgue space such that

$$F_f = F$$
 and $F_{f,n} = F_n$ (n=1,2,...).

AUTHOR

ROKHLIN V.A.

PA - 3009

TITLE

On Pontryagin Characteristic Classes.

(O kharakteristicheskikh klassakh Pontryagina, -Russian)

Doklady Akademii Nauk SSSR,1957, Vol 113, Nr 2, pp 276-279 (U.S.S.R.)

Received 6/1957

Reviewed 6/1957

ABSTRACT

PERIODICAL

Primarily the status of the problem is shown and the competent prepublications are quoted. The main result of the present paper lies in the fact that the class $S_{lik}(M^n)$ is topologically invariable, even in the case of n= 4k + 1. Especially PONTRYAGIN's class p, (M5) of the five-dimensional manifold M5 (described in detail in the text) is topologically invariable. But this class can not be expressed by the invariables of the circle of the V-homologies of the manifolds M5.

Then follows the demonstration of the topological invariance of the class Then follows the demonstration of the topological invariance of the class $S_{l,k}(\mathbb{N}^{n+1})$. \mathbb{N}^{n+1} and \mathbb{N}^{n+1} here are to denote plain, compact, orientable manifolds, which are identical as topological manifolds. It has to be proved here that $S_{l,k}(\mathbb{N}^{n+1})$ is regarded equal to $S_{l,k}(\mathbb{N}^{n+1})$. For this purpose it is shown that the scalar products $(S_{l,k}(\mathbb{N}^{n+1}), \mathbb{N}^{n+1})$ and $(S_{l,k}(\mathbb{N}^{n+1}), \mathbb{N}^{n+1})$ and $(S_{l,k}(\mathbb{N}^{n+1}), \mathbb{N}^{n+1})$

(N, *k+1), u*k) are identical. As is known, it is possible to transfer the definition of the characteristical V-classes of PONTRYAGIN on nonorientable manifolds. The transition to orientable two-layer superpositions demonstrates that the classes Shk (M-k+1) here remain topologically invariable.

Card 1/2

If n > 1 the class $p_h(Mn)$ is not defined by the circle of the V-homolo-

PA - 3009 On Pontryagin Characteristic Classes. gies of the manifold M^n . Finally some properties of the classes S_{hk} (Kek+1) are defined. Without illustrations.)

结形。 1987年,1988年,

ASSOCIATION

National Educational Institute IVANOVO PRESENTED BY KOLMOGOROV A.N., Member of the Academy

SUBMITTED

26.9.1956

AVAILABLE

Library of Congress

Card 2/2

HOWHLIN, V.A.; SHVARTS, A.S.

The combinatorial invariance of Pontriagin classes. Dokl. AN SSSE 114 no.3:490-493 My '57. (MIRA 10:8)

lenc akademikon P.S. Aleksandrovym.
(Topology)

Card 1/3

20-114-3-11/60 Rokhlin, V. A., Shvarts, A. S. AUTHORS: On the Combinatorial Invariance of the Pontryagin Classes (O kombinatornoy invariantnosti klassov Pontryagina) TITLE: Doklady Akademii Nauk SSSR,1957,Vol.114,Nr 3,ppc490-493(USSR) PERIODICAL: The present paper proves the combinatorial invariance of the reduced Pontryagin-classes p4k, i.e. the characteristic ABSTRACT: Pontryagin-classes which may be considered as classes of the weak V-homologies. The present paper is closely connected with the paper by V. A. Rokhlin, Doklady Akademii Nauk SSSR, 1957, Vol. 113, Nr 2. When P is a continuous representation, the corresponding homomorphisms of the groups of the ∇ - and Δ -homologies are designated by φ * and φ_* . Main theorem: Let M_0^n , M_1^n be smooth closed manifolds with the isomorphous c^1 -triangulations K_0 and K_1 and $\rho: H_0^n - H_n^n$ be an isomorphous representation which may be defined by a certain isomorphism between K_0 and K_1 . Then $\phi^*(p_{4k}(M_1^n)) = p_{4k}(M_0^n)$ (k=1,2,...)

20-114-3-11/60

On the Combinatorial Invariance of the Pontryagin Classes

applies. From this the following corollary arises: When the smooth closed orientable manifolds M41, M41 have isomorphous C¹-triangulations, at a suitable orientation they have equal Pontryagin-numbers. From the main theorem follows: When the main hypothesis of the combinatorial topology is correct, the Pontryagin-numbers are topologically invariant. When the stronger main hypothesis is correct, the reduced Pontryagin--classes are topologically invariant. Then two lemmata are given and proved, and after those the proof of the main theorem is given. Finally the authors examine the manifolds \mathtt{B}_k^8 and \mathtt{X}_k^8 constructed by Milnor. \mathtt{L}_k^8 be the triangulation of the second manifold obtained from a certain C^1 -triangulation of the first manifold. L^8 is a formal manifold. Then the following theorem is proved: At $k \ne 1 \pmod{7}$ the closed orientable manifold L_k^8 does not permit any smoothness and besides it is not internally homologuous to the smooth manifold. The following corollary is obtained: When the main hypothesis of the combinatorial topology is the case, no smoothness can be introduced into the topological mainfold X There are 8 references, 2 of which are Soviet and 6 French.

Card 2/3

20-114-3-11/60

On the Combinatorial Invariance of the Pontryagin-Classes

ASSOCIATION: State Pedagogical Institute, Ivanovo (Ivanovskiy gosudarstvennyy

pedagogicheskiy institut)

PRESENTED: February 2, 1957, by P. S. Aleksandrov, Member of the Academy

SUBMITTED: January 30, 1957

Card 3/3

ROKHLIN, V.A.

Generators in ergodic theory. Vest. LGU 20 no.13:68-72 '65. (MIRA 18:7)

ROKHLIN, V.A.

Imbedding of nonorientable three-dimensional manifolds in a five-dimensional Euclidean space. Dokl. AN SSSR 160 no.3: 549-551 Ja '65. (MIRA 18:3)

1. Submitted July 14, 1964.

ROKHLIN, V.A.

New examples of four-dimensional manifolds. Dokl. AN SSSR nc.2: 273-276 My 65. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet im. A. a. m. denova. Submitted November 27, 1964.

Retric properties of the Entomorphisms of compact commutative groups. Izv. AN SSSR, Ser. mat. 28 no. A:367-874 JL-Ag '64. (MERA 17.9)

(Spaces, Generalized) (Entropy)		 Ge	 enerati	rices in	ergo	odic t	theory.	Vest. LGU	18 no (MIRA	.1:26-32 16:1)	'63.	
											-	
												-
	٠											

ROKHLIN, V.A.

Axiomatic determination of the entropy of a transformation with an invariant measure. Dokl.AN SSSR 148 no.4:779-781 F *63.

(MIRA 16:4)

1. Predstavleno akademikom A.N.Kolmogorovym.
(Transformations (Mathematics)) (Entropy)

ROHLIN, V.A. [Rokhlin, V.A.]; ARATO, Matyas [translator]

New development in the theory of moderate projections. Mat kozl MTA 12 no.4:339-360 162.

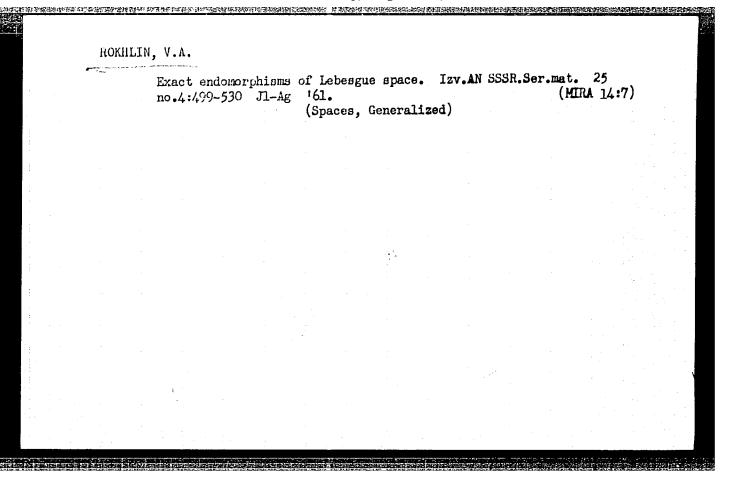
ABRAMOV, L.M.; ROKHLIN, V.A.

Entropy of the skew product of transformations with an invariant measure. Vest.IGU 17 no.7:5-13 *62. (MIRA 15:5) (Transformations (Mathematics)) (Topology)

ROKHLIN, V.A.; SINAY, Ya.G.

Construction and properties of invariant measurable divisions.

Dokl. AN SSSR 141 no.5:1038-1041 D 161. (MIRA 14:12)



D-1. ADDRESS.	 	New prog	ress Usp.	merce	цаик	• > 200	• • •		HIM)	tn 11 A 13:	9)	-11 U	
				(Tra	nsform	at ion s	(Math	ematic	3))				
											•		
								÷					
													127
								•	-				
													7
										100			

84750

S/042/60/015/004/008/017XX C111/C222

16.2800

AUTHOR: Rokhlin, V.A.

TITLE: New Progress in the Theory of Transformations With Invariant Measure PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol. 15, No. 4, pp. 3-26

TEXT: The paper originated in the author's lectures at the Conference on Functional Analysis (September 30, 1959) in Baku and in the Moscow Mathematical Society (November 17, 1959). The author gives a survey on the modern, chiefly Soviet results of the ergodic theory, especially such which have been treated in the author's seminar on the metric theory of dynamic systems at the Moscow University. All papers mentioned in the survey are already published. The starting point of the development were the results of Kolmogorov (Ref. 1, 2) obtained with the aid of the theory of information, where the notion of the entropy of a transformation was introduced. A somewhat changed useful definition of the notion of the entropy of the automorphism

T is due to Ya.G.Sinay (Ref. 11). Then the properties of the entropy were investigated by Sinay (Ref. 11), Abramov (Ref. 9, 12) and Rokhlin (Ref. 13). Theorems which admit a calculation of the entropy are due to the same authors (Ref. 13, 14, 15). Automorphisms with a zero-entropy and connections between entropy and spectrum were also treated by the author (Ref. 13) and Card 1/2

etimi egabekanda kebasantan dabah bahara bahar bahar bahar bahar

84.75C

S/042/60/015/004/008/017XX C111/C222

New Progress in the Theory of Transformations With Invariant Measure in (Ref.9). Beside of the automorphisms of Kolmogorov (Ref.1) and M.S. Pinsker(Ref.17), in (Ref.16) the author investigated the strong endomorphisms. In some papers the different flows (quasiregular (Ref.1), geodesic (Ref.21,22,23,24)) and their entropy was considered. Finally the author formulates a large number of new problems, e.g.: Has every ergodic automorphism a generator? Is every factor-automorphism of a Kolmogorov (automorphism of a compact commutative group a itself? Is the ergodic automorphism of a compact commutative group a Kolmogorov automorphism? Has it a positive entropy? Has every flow with a positive entropy in its spectrum a countable multiple Lebesgue component? The author mentions Gel'fand, Formin, L.D.Meshalkin and I.V.Girsanov. There are 25 references: 20 Soviet, 2 German, 1 Japanese, 1 Polish and 1 American.

SUBMITTED: March 21, 1960

Card 2/2

16(1) AUTHOR:

Rokhlin, V.A.

507/42-14-4-1/27

TITLE:

The Theory of Inner Homologies

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 3-20 (USSR)

ABSTRACT:

The present paper is a representation of the lecture given by the author in the Moscow Mathematical Society on December 2,1958.

1. Terminology; 2. older results; 3. characteristic classes of Stiefel-Whitney and Pontryagin; 4. Pontryagin's theorems; 5. three-and four-dimensional manifolds. The groups Oth and On; 6. and 7. results of Thom; 8. modern papers of the author / Ref 17,22 / ; 9. papers of Averbukh / Ref 24 /, Dold / Ref 20 /, Adachi

/ Ref 25 /; 10. enumeration of some unsolved problems. The application of the theory of inner homologies is not mentioned

in the present paper.

There are 28 references, 11 of which are Soviet, 5 American, 4 French, 1 Indian, 1 Chinese, 3 German, 1 Japanese, and 2 Swiss.

SUBMITTED: February 9, 1959

Card 1/1

是我们就是我们的证明,这种是一种的,这种的人,但是我们的人,我们也不是一种的人,我们就是这种的人,就是我们的人,就是我们的人,我们就是我们的人,我们就是我们的人 我们就是我们就是我们的人,我们就是我们的人,我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我 ROKHLIN, V.A. Entropy of metric automorphism. Dokl. AN SSSR 124 no.5:980-983 (MIRA 12:3) 1. Kolomenskiy pedagogicheskiy institut. Predstavleno akademikom A.N. Kolmogorovym. (Functional analysis)

16(%) AUTHOR:

Rokhlin, V.A.

SOT/20-124-5-5/62

TITLES

On the Entropy of Metric Automorphisms (Ob entropii

metricheskogo aytomorfi2ma)

PERIODICAL 8

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 980-983 (USSR)

ABSTRACTS

The satisfic area the following notations s M is a Lebesgue space with the measure μ_0 . We the space of its measurable subsets, M the set of its automorphisms. In $\mathcal R$ the metric $g(A_0B) = \mu_0(A_0+B_0)$ and exists, in $\mathcal R$ there are two topologies ender which Cooper the spaces $\mathcal R_0$ and $\mathcal M_0$; g the defender which Cooper the spaces $\mathcal R_0$ and $\mathcal M_0$;

composition of M into single points; $\xi \leq \eta$ meens that η is a subdecomposition of the decomposition ξ . H(ξ) is the entropy of ξ . A great number of chiefly new properties of the entropy and of the connected notions is given partly with and partly without proof; e.g. s Let Z be the set of decompositions ξ of the space M with H(ξ)<00. If ξ_{10} , ξ_{20} . is a

sequence of decompositions from Z so that \$ 5 & \$ n+1

card i/2

On the Entropy of Metric Automorphisms

507/20-124-5-5/62

$$\bigcap_{n \ge 1}^{\infty} \mathcal{Z}_n = \mathcal{E} , \text{ then it is}$$

(1)
$$\lim_{n\to\infty} h(T, \xi_n) = h(T),$$

where $n(T) = \sup n(T, \xi)$ is the entropy of the automorphism T;

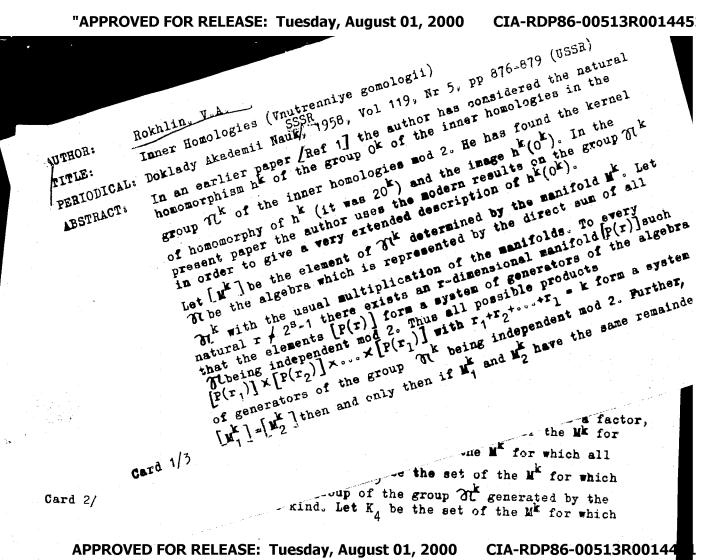
$$h(T, \xi) = \lim_{n \to \infty} \frac{1}{n} H(\xi_T^n) , \quad \xi_T^n = \int_{k=0}^{n-1} T^k \xi . \text{ It is proved that}$$

 $\mathbf{h}(\mathbf{T})$ on $\mathscr{U}_{\mathbf{S}}$ is no function of first class; from which it foliows again that the formula (1) defining the entropy of the automorphism by two limit passages principally cannot be simplified. - There are 7 Soviet references.

ASSOCIATION: Kolomenskiy pedagogicheskiy institut (Kolomna Pedagogical Institute)

November 28, 1958, by A.N. Kolmogorov, Academician November 28, 1958 PRESENTED: SUBMITTED?

Card 2/2



Rokhlin, V.A.

44-1-261

TRANSLATION FROM:

Referativnyy zhurnal, Matematika, 1957, Nr 1,

p 38 (USSR)

AUTHOR:

Rokhlin, V.A.

TITLE:

Characteristic Cycles of Smooth Manifolds (Kharakteristichyeskiye tsikly gladkikh

mnogoobraziy)

PERIODICAL:

Tr. 3-go Vses. matem. s"yezda, 2 Moscow, AN SSSR,

1956, p 55

ABSTRACT:

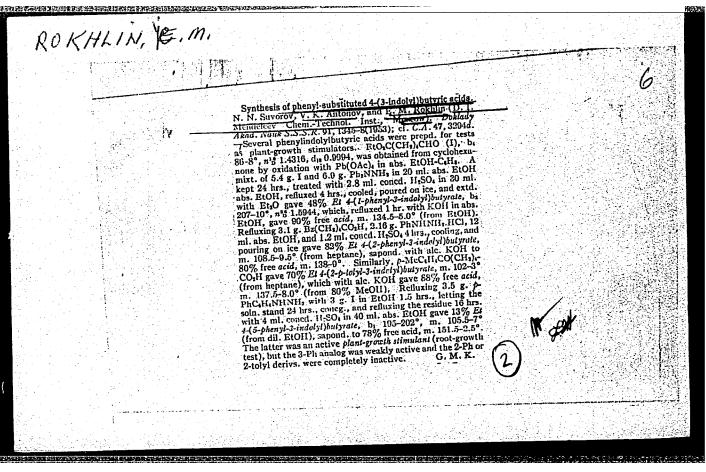
The work of Stieffel, Whitney, Pontryggin, Chern and other authors on the theory of characteristic cycles is mentioned. It is pointed out that the only complete result on the invariance of the

characteristic cycles of Pontryagin (invariance of the characteristic number of the 4th dimension orientated closed manifold) belong to the author and to Thom.

Card 1/1

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445



ROKHLIN, YE. M.

USSR/ Chemistry

Card 1/1 Pub. 22 - 20/51

Authors Mamayev, V. P.; Suvorov, N. N.; and Rokhlin, E. M.

Title Synthesis of beta-(2-thienyl)-beta-alanine and some of its derivatives

Periodical | Dok. AN SSSR 101/2, 269-271, Mar 11, 1955

Abstract

The synthesis of beta-(2-thienyl)-beta-alanine from thiophene-2-aldehyde is described. The method of obtaining these compounds and their derivatives is based on the reaction of homologous aldehydes with malonic acid in the presence of spirits of ammonia. Nine references: 4 USSR, 4 USA and 1 German (1912-1953).

Institution: The D. I. Mendeleyev Chemical Technological Institute, Moscow

Presented by: Academician I. N. Nazarov, September 24, 1954

5(3) AUTHORS:

Knunyants, I. L., Gambaryan, N. P., SOV/74-27-12-1/4

Rokhlin, Ye. M. (Moscow)

TITLE:

Carbenes (Karbeny) Compounds of Bivalent Carbon Occurring in Intermediary Form in Organic Reactions (Soyedineniya dvukhvalentnogo ugleroda, promezhutochno obrazuyushchiyesya

v organicheskikh reaktsiyakh)

PERIODICAL:

Uspekhi khimii, 1958, Vol 27, Nr 12, pp 1361 - 1436 (USSR)

ABSTRACT:

In this survey the authors made an attempt to deal thoroughly with the data known from publications on the intermediary formation of carbenes. In future the intermediary formation of carbenes may be expected to be demonstrated in the case of reactions of organic substances as well. The survey is concluded with the discussion of the carbene structure. At the moment it is not yet possible to say anything definite about the electron state of the carbenes - whether in

singlet or triplet state. In the former case they can really be regarded as bases conjugate with carbon ions, in the latter case as radicals. The data in the publications are extremely

contradictory. It frequently occurs that the individual authors draw different conclusions from one and the same

Card 1/4

Carbenes. Compounds of Bivalent Carbon Occurring as Intermediary Form in Organic Reactions

507/74-27-12-1/4

condition. Approximative quantum-mechanical computations lead, however, to the conclusion that the basic state of the most simple carbene - methylene - is a triplet state, The interest for carbenes was roused in connection with the work carried out with carbene dihalides. It was proved that in the case of an effect of bases on "haloforms" a separation of the proton takes place. The trihalogen methyl anion formed in this connection is decomposed into carbene dihalide and halogen anion. As a result of its electrophilic nature carbene dihalide enters a reaction with a number of nucleophilic reagents. In consequence of the reaction of carbene dihalides with olefins propane dihalides are formed. This new reaction has found a wide field of application and makes various cyclohexane derivatives accessible; among them also compounds with a condensed system containing a cyclopropane cycle. It is possible to explain the relative stability of carbones by means of the superposition of the following structures:

Card 2/4

X C: and X

Carbenes. Compounds of Bivalent Carbon Occurring as Intermediary Form in Organic Reactions

SOV/74-27-12-1/4

The energy yield is, however, too small to guarantee a complete stability of carbene dihalides as is the case with carbon oxide or isonitrilene. In the case of free methylene there is no such possibility; a shorter period of time, is, however, permissible. Free methylene is formed as a result of a thermal or photolytic separation of diazomethane or ketene. Data concerning the intermediary formation of methylene exist also with other reactions. In order to be able to obtain a carbene from a compound with a tetravalent carbon from the molecule of that compound, such an atom group must be separated which is connected with the carbon atom by means of two electron pairs. Such a reaction may be called an d-separation in the widest sense of the word. Thus it is possible to obtain not only carbenes with only one carbon atom but also substituted and complicated carbenes. Oxycarbenes have been most thoroughly investigated. The relative stability of oxycarbenes may be explained by an unseparated pair of electrons in the "carbene"-carbon atom with the carbonyl double binding. The carbene formation happens to be most unreliable in the synthesis of dimerolefins from halogen

Card 3/4

Carbenes. Compounds of Bivalent Carbon Occurring as Intermediary Form in Organic Reactions

507/74-27-12-1/4

derivatives. The possibility of and-separation of hydrogen halide is proved by the investigation of hydrogen halide separation of deutero halides of the type $\mathrm{RCD}_2\mathrm{CH}_2\mathrm{X}$ and $\mathrm{RCH}_2\mathrm{CD}_2\mathrm{X}$, even if the hydrogen atom is in a β -position. The d-separation of hydrogen halide is often accompanied by a process of regrouping which is in connection with the transformation of both hydrogen or deuterium and various groups connected with the β -hydrocarbon atom. Finally it may, however, be said that neither the geometric nor the electron structure of carbenes seems to be definitely investigated. There are 545 references, 72 of which are Soviet.

Card 4/4

KNUNYANTS, I.L.; ROKHLIN, Ye.M.; GAMBARYAN, N.P.; CHEBURKOV, Yu.A.; CHEN'TSIN-YUN' [Chen' Ch'ing-yung]

Fluorinated ketones. Bis(trifluoromethyl)glycolic acid. Khim. nauka i prom. 4 no.6:802-804 59. (MIRA 13:8)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Glycolic acid)

ROKHLIN, Ye.M.; GAMBARYAN, N.P.; CHEN' TSIN-YUN' [Ch'ên Ch'ing-yan]; KNUNYANTS, I.L., akademik

2-Phenyl-4-hexaflouoroisopropylidne-5-oxazolone. Dokl. AN SSSR 134 no.6:1367-1370 0 '60. (MIRA 13:10)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Oxazolinone)

860hjr

S/020/60/135/003/028/039 B016/B054

53600

AUTHORS: Rokhlin, Ye. M., Gambaryan, N. P., and Knunyants, I. L.,

Academician

TITLE: Mobility of Fluorine Atoms in Derivatives of Benzamido

Hexafluoro Dimethyl Acrylic Acid

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3,

pp. 613 - 616

TEXT: The authors report on their investigations of the saponification of fluorine atoms of the trifluoro methyl group in α-benzamido hexafluoro dimethyl acrylic acid (I) and its derivatives. They proved that fluorine atoms are very easily saponified. In the reaction with a saturated NaHCO₃ solution at room temperature, (I) is transformed into the salt of 1-benzamido-2-trifluoro-methyl-ethylene-1,2-dicarboxylic acid (II). The authors state that (III), the esters of acid (I), behave similarly; but 2-phenyl-4-carbalkoxy-5-trifluoro-methyl-1,3-oxazinones-6 (V) are also formed besides the acid esters (IV) of acid (II). In the authors opinion, this is due to a cyclization of the intermediate acid fluorides (VI). By a Card :/4

《西京教育》的《西京教育》的《西京教》的《西京教育》,《西京教育》的《西京教育》

860114

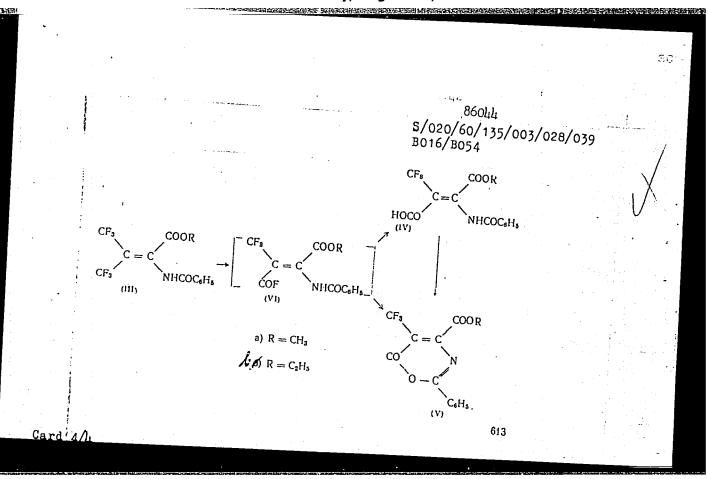
Mobility of Fluorine Atoms in Derivatives of S/020/60/135/003/028/039 Benzamido Hexafluoro Dimethyl Acrylic Acid B016/B054

reaction of acid esters (IV) with diazomethane, the authors obtained corresponding saturated esters; dimethyl ester (VII) and methyl-ethyl ester (VIII). (VII) is also formed in the methylation of the dicarboxylic acid (II) with diazomethane, whereas (VIII) is formed by a reaction of 2-phenyl-4-carbethoxy-5-trifluoro-methyl-1,3-oxazinone-6 with methanol in the presence of triethylamine. The saponification of the trifluoro methyl group in acid (I) and its derivatives proceeds easily, not only in alkaline medium. When boiling acid (I) with the hydrochloric acid solution of 2,4-dinitro-phenyl hydrazine, the authors isolated the 2,4-dinitro-phenyl hydrazone of α -trifluoro-methyl malonic semialdehyde (X). In the authors opinion, this is due to a decarboxylation and saponification of one of the trifluoro methyl groups. The authors explain the very easy saponification of the trifluoro methyl group in acid (I) and its derivatives by the conjugation of the C-F bonds not only with the C=C double bond but also with the unseparated electron pair of the nitrogen atom. There are 4 references: 1 Soviet, 1 US, and 2 British.

Card 2/4

(vai) O - C (va) C₆H₅

CIA-RDP86-00513R001445



KNUNYANTS, I.L.; GAMBARYAN, N.P.; ROKHLIN, Ye.M.

2-Phenyl-4-hexafluoroisopropyl-5-benzoyloxyoxazole. Izv. AN SSSR. Otd.khim.nauk no.5:924-926 My '62. (MIRA 15:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Oxazole)

GAMBARYAN, N.P.; ROKHLINA, Yel.M., ZEYFMAN, Yu.V.

Reaction of fluorinated ketones with olefins. Izv. AN SSSR. Ser. khim. no.8:1466-1469 '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

KNUNYANTS, I.L., akademik; KOCHARYAN, S.T.; CHEBURKOV, Yu.A.; BARGAMOVA, M.D.; ROKHLIN, Ye.M.

Reversibel dehydrofluorination of 2-monohydroperfluoroisobutane and 2-hydrohexafluoroisobutyric acid esters. Dokl. AN SSSR 165 no.4:827-830 D 165. (MIRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

是是是我们是我们的人们的人们就是这个人的人,我们就是我们的人们的人们就是我们的人们的人们的人们的人们的人们的人们的人们的人,也不是不是一个人们的人们的人们的人们 第一章

UNANYAN, M.P.; KONDRATIYEVA, G.V.; LOCHMELIS, A.Ya.; ZAVITLOV, S.I.;

ZEYFMAN, Yu.V.; GAMBARYAN, N.P.; MINASYAN, B.B.; KNUNYANTS, K.L.;

KOCHARYAN, S.T.; ROKHLIN, Ye.M.; KAVERZNEVA, Ye.D.; KOFSMAE, V.V.;

ROGOZHIN, S.V.; DAVANKOV, V.A.; TSEYTLIN, G.M.; PAVLOY, A.I.;

ZAKHARKIN, L.I.; OKHLOBYSTIN, O.Yu.; SEMIN, G.K.; BABUSHKINA, T.A.;

BLIEVICH, K.A.

Letters to the editor. Izv. AN SSSR. Ser, khim. no.1:1909-1914 '65. (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR (for Unanyan, Kondrat'yeva, Lochmelis, Zav'yalov, Kaverzneva).
2. Institut elementoorganicheskikh soyedineniy AN SSSR (for Zeyfman, Gambaryan, Minasyan, Knunyants, Kocharyan, Rokhlin, Korshak, Rogozhin, Davankov, Zakharkin, Okhlobystin, Semin, Babushkina, Bilevich).

·	L 05171-67 EWT(m)/EWP(j) WW/JW/RM ACC NR. AP7000729 SOURCE CODE: UR/0062/66/000/006/1057/1062	
	KNUNYANTS, I. L., KOCHARYAN, S. T., ROKHLIN, Ye. M., Institute of Heteroorganic Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedineniy	
The state of the s	"Mobility of Hydrogen Atoms in Monohydroperfluoroalkanes and Related Compounds. Communication 2. 2-Monohydroperfluoroisobutane in the Michael Reaction" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1057-1062 Abstract: The synthetic utilization of the proton mobility of hydrogen atoms in monohydroperfluoroalkanes, induced by the electron repelling action of the perfluoroalkyl groups, was demonstrated for the first time. It was found that triethylamine can be used successfully as the catalyst of the Michael reaction in the case of 2-monohydroperfluoroisobutane and related compounds. In the presence of triethylamine, 2-monohydroperfluoroisobutane adds to acrylic systems (acrylonitrile, methyl acrylate, and acrolein), yielding beta-(perfluorotert-butyl) propionic acid, and beta-(perfluorotert-butyl) propionaldehyde, which may be used as sources for the synthesis of organic compounds containing the perfluorotert-butyl group. Esters of alpha-hydrohexafluoroisobutyric acid and trifluorotert-butyl group. Esters of alpha-hydrohexafluoroisobutyric acid and trifluorotert-butyl methylmalonic acid react analogously, to form the corresponding beta-substitited propionitriles. A reaction mechanism including intermediate formation of a carbanion, which reacts with the activated double bond, is proposed.	
•	Card 1/2 UDC: 542.95 + 661.723-16	

		7-1
L 05171-67 ACC NR: AP7000729		1 0
has: 9 formules. [JPRS: 37,023]	•	
compound tribuly lamin	/ OTH REF:	001
TOPIC TAGS: fluorinated organic compount. SUB CODE: 07 / SUBM DATE: 13Dec65 / ORIG REF: 002		
		A complete to the second
	*.	
	t,	
Card 2/2 vmb		

GAMBARYAN, N.P.; ROKHLIN, Ye.M.; ZEYFMAN, Yu.V.; KNUNYANTS, I.L.

Bis (trifloromethyl) ketene anil. Izv. AN SSS. Ser. khim. no.4: 749-750 °65. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

MINASYAN, R.B.; ROKHLIN, Ye.M.; GAMBARYAN, N.P.; ZEYFMAN, Yu.V.; KNUNYANTS, I.L.

Bis (trifluoromethyl) cyclodiazomethane. Izv. AN SSSR. Ser. khim. no.4:761 '65. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ROKHLIN, Ye.M.; ZEYFMAN, Yu.V.; CHEBURKOV, Yu.A.; GAMBARYAN, N.F.; KNUNYAHTE, I.L., akademik

Reaction: hexafluoroacetone (th triethyl phosphite. Dokl. AN (MIRA 18:5) SSSR 151 no.6:1356-1358 Ap +65.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ROKHLIN, Ye.M.; GAMBARYAN, N.P.; KNUNYANTS, I.L.

Reaction between 2-phenyl-4-hexafluoroisioproylidene-5oxazolone and ketene. Izv. AN SSSR. Ser. khim. no.11:1952-(MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ROKHLIN, Ye.M.; GAMBARYAN, N.P.

N-benzoyl- | -bis-(trifluoromethyl)-dl-glutamic acid in the Borodin reaction. Izv. AN SSSR. Ser. khim. no.11:1959-(MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ROKHLIN, Yu., podpolkovnik

First experience and its lessons; notes of an instructor at a military school. Vcen.vest. 43 no.10:76-79 0 '63. (MIRA 16:12)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

ROKHLINA, E. YA.

E. Ya. Rokhlina, "On the Anatomy of the Potato Plant Affected with Mosaic-like Diseases," Materialy po Mikologii i Fitopatologii, vol. 8, no. 2, 1931, pp. 145-154. 464.9 R92M

SO: Sira Si 90-53, 15 Dec 1953

CIA-RDP86-00513R001445

ROKHLINA, E. YA.

E. Ya. Rokhlina, "About the Resistance of Crucifers to Plasmodiophora brassicae," Biulleten! VII Vsesoiuznogo S'ezda po Zashchity Rastenii v Leningrade 15-23 Noiabria 1932 Goda, no. 8, 1932, pp. 29-30. 423.92 V96

SO: Sira Si 90-53, 15 Dec 1953

ROKHLINA, E.

"Radio races of yeasts and their practical significance," <u>Vestn. rentgen. i</u> radiol., 11, 1932.

ROKHLINA, E. YA.

E. Ya. Rokhlina, "On the Question of the Mon-susceptibility of Cruciferae to Plasmodiophora brassicae Mor.," Trudy po Zashchity Rastemii, Seriia 2, no. 3, 1933, pp. 8-31. 423.92 L54P

SO: Sira Si 90-53, 15 Dec 1953

ROKHLINA, E.

"The structure of radio races of Saccharomyces cereviseae XII with Ameboid-shaped Cells," Izv. AN SSSR, 11, p 327, 1934.

ROBILINA, E. YA.

E. Ya. Rokhlina "Reaction of Plant Tissues to Viruses," in Abstracts of Reports of the All Union Conference on the Study of Ultra-microbes and Filtrable Viruses (14-18 December 1935), Publishing House of the Academy of Science USSR, Moscow, 1935, pp. 12-13. 448.39 Akl

SO: Sira Si 90-53, 15 Dec 1953

ROMELINA, E. YA.

E. Ya. Rokhlina "On Some Feculiarities of Late Blight Resistant Potato Varieties,"

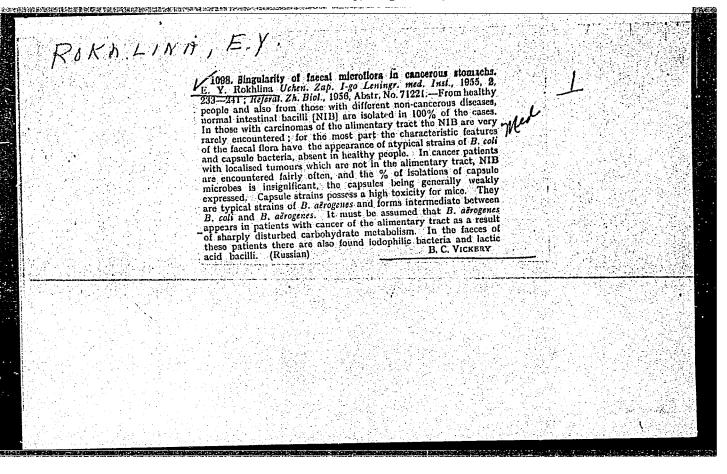
Raboty Nauchno-Issledovatel'skogo Instituta Kartofel'nogo Khoziaistva, no. 4,

1935, pp. 85-95, 75.9 L54

SO: Sira Si 90-53, 15 Dec 1953

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445



ROKHLINA, E.Ya., doktor biologicheskikh nauk

Microflors of the intestines in elderly persons. Trudy LIETIN

(MIRA 16:2)

(GERIATRICS) (INTESTINES—MICROHOLOGY)

Peculiarity of fecal mircroflora in gastric cancer. Trudy LMI
2:233-241 '55 (MIRA 11:8)

1. Kafedra mikrbiologii (zav. - prof. V.H. Josmodamianskiy)
Pervogo Leningradskogo meditsinskogo instituta imeni akademika
I.P. Pavlova.
(SIOMACH--CANCER)
(INTUSTINES-BACTERIOLOGY)

BOYHLINA, Bmiliya Yakovlevna

Academic degree of Doctor of Biological Sciences, based on her defense, 29 November 1954, in the Council of the First Leningrad Med Inst imeni Favlov, of her dissertation entitled: "The Biological Action of Radon, as Affected by the Medium and the Physiological State of the Organism."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 25, 10 Pec 55, Byulleten' MVO SSSR, Uncl. JPRS/NY 548

ROKHLINA, I.

Ensure a supply of unbreakable laboratory vessels to industrial laboratories. Zav.lab. 25 no.2:249 ' 59. (MIRA 12:3)

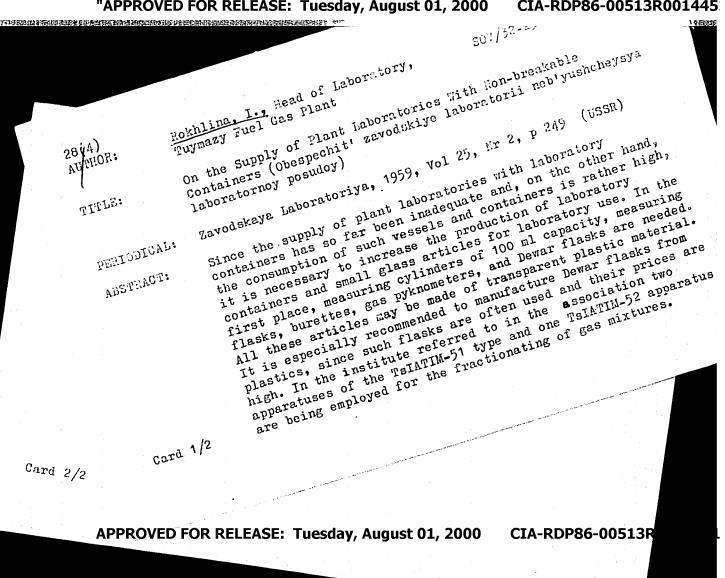
1. Nachal'nik laboratorii Tuymazinskogo gazobenzinnogo zavoda. (Laboratories--Equipment and supplies)

RCKHLINA, I.

Operation of KhT-2M chromathermograph. Gaz. delo no.4:36-33*64 (MIRA 17:7)

1. Tuymazinskiy gazobenzinovyy zavod.

CIA-RDP86-00513R001445 "APPROVED FOR RELEASE: Tuesday, August 01, 2000



ROKHLINA, I.A.

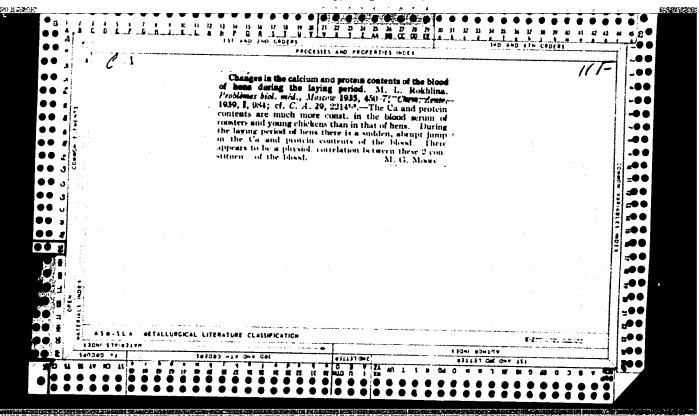
Fast method for determining the heating capacity of hydrocarbon gases. Gaz. delo no.7:37-38 64. (MIRA 17:8)

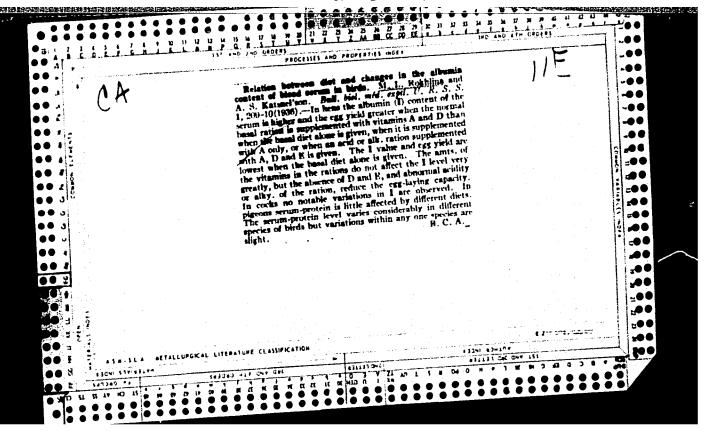
1. Tuymazinskiy gazobenzinovyy zavod.

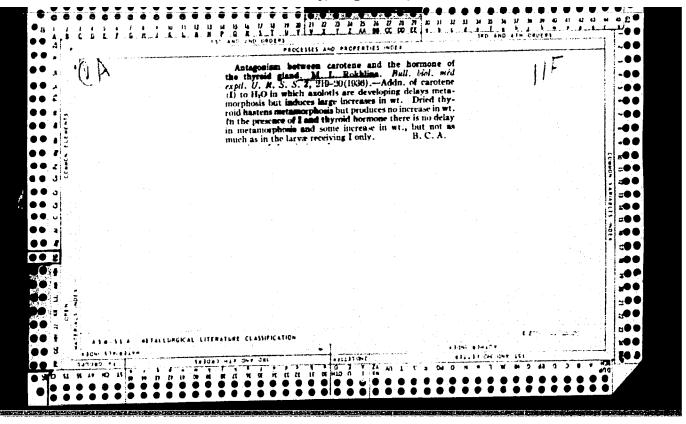
Analyses o Gaz.prom.		of the absorbent 6 no.4:50-51 (Gas, Natural)			161.			casing-head gasoline. (MIRA 14:3)					
									٠				
											1		

ROKHLINA, 1.A.

Chromatographic analysis of petroleum gas. Gaz. delc no.7:24-26 165.
(MIRA 18:9)
1. Tuymazinskiy gazobenzinovyy zavod.



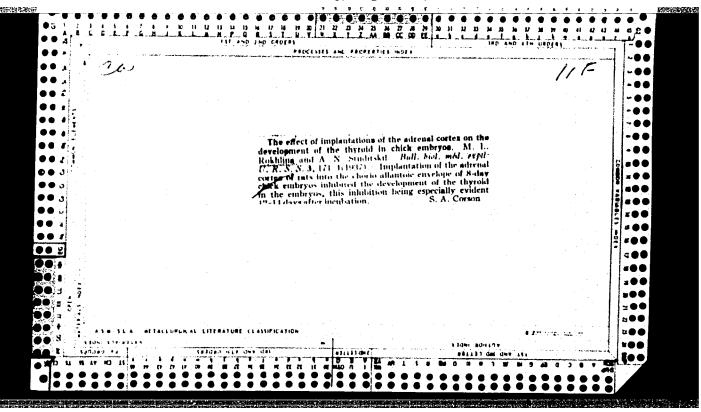


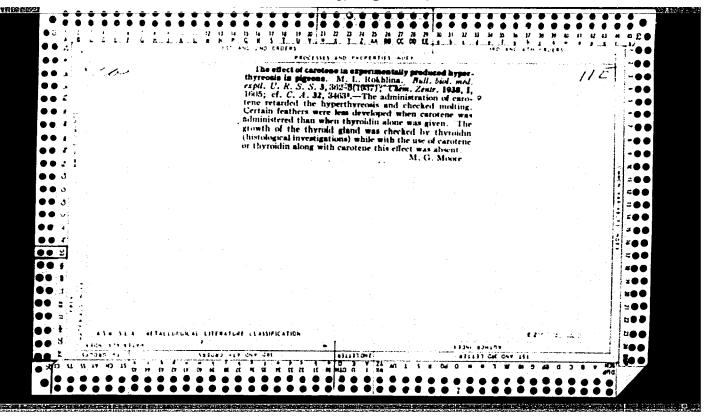


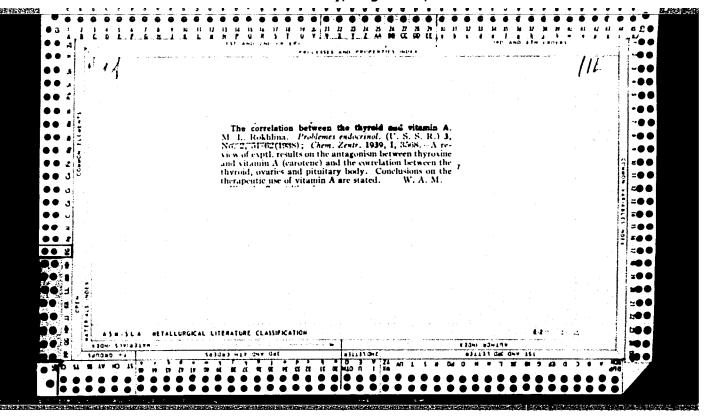
ROKHLIMA, H. L.

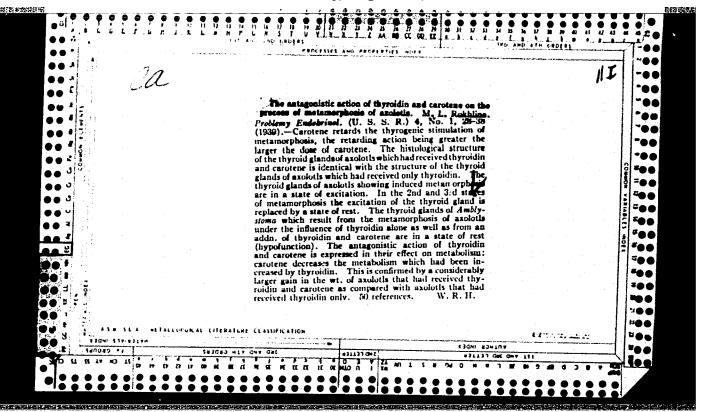
"Research Lines in Vital Microscopy", (p. 537) by Rokhlina, M. L.

SO: Advances in Contemporary Biology (USPEKKI SOVREMENNOI BIOLOGII) Vol. V. No. 3 1936





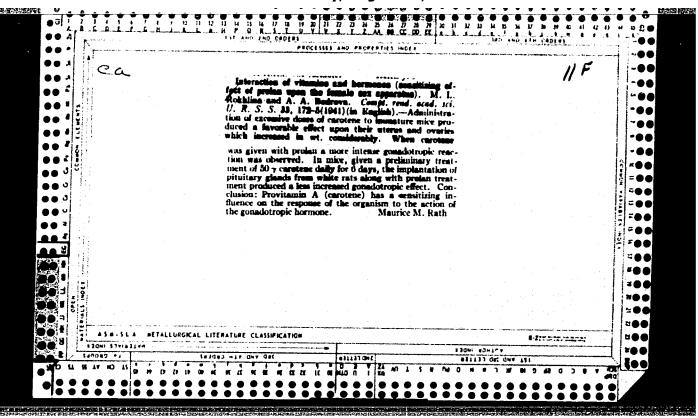


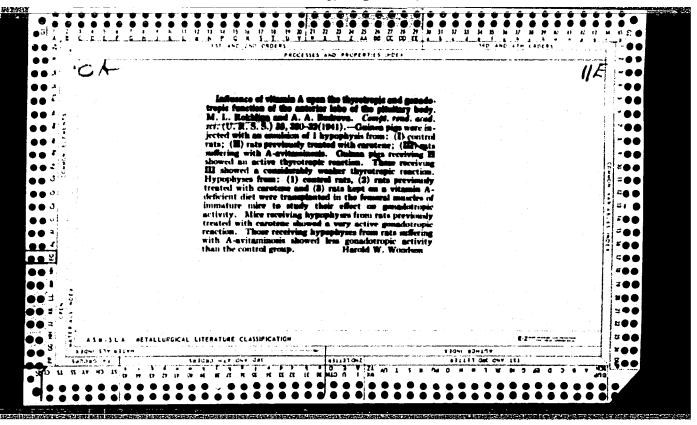


"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445 Effect of the suprarenal cortex on the metamorphosis of the axolott. M. L. Rokhlina and O. A. Petrovskaya. Problemy Endokrikol. 4, No. 4, 3 10(1939); cf. C. A. 36, so the axolott minered, calls forth metamorphosis at Osc. Keeping the axolott immersed in a suspension prepd. from this tissue, or feeding the cortex produces only exophthalmia. The implantation of cortex tissue does not stimulate the thyroid; rather it induces a hypotunctional state, showing that the thyroid gland does not take part in the metamorphosis is a reaction of the larval organs of the axolotl in response to the change of the wid-base balance of its system. Normally this change in pH is produced by increased thyroid activity, but in this case it is believed to be the result of the decompn. of cortical tissue within the axolot. The rotex from normal metamorphosis by the fact that it is intensive only in the beginning and then is returded in action. This retardation is the result of the decompn. of cortical tissue within the larval organs of the axolot in response to the change of the wid-base balance of its system. Normally this change in pH is produced by increased thyroid activity, but in this case it is believed to be the result of the decompn. of cortical tissue within the larval organs of the axolotli in response to the change of the wid-base balance of its system. Normally this change in pH is produced by increased thyroid activity, but in this case it is believed to be the result of the decompn. of cortical tissue within the larval organs of the axolot in response to the change of the wid-base balance of its system. Normally this change in pH is produced to be the result of the cortical hormone, which is known to suppriess all metabolism, and to depress thyroid accivity. The cortex from thyroidectomized mice (which produced only exophthalmia) or the cortex from mice fed thyroxine. Implantation of thyroid gland from normal peared at once but stopped at the 1st phase which disap-~ • • PRECESSI peared in once true stopped at the 1st phase which disap-peared in 30 days. Implantation of thyroid into the axolotl in this series gave increased rates of metamorphonis in 40% of the cases and in 30% it was carried to the 3rd phase. The acidosis necessary for the advent of metamorphonis was not - • • ... of the cases and in 30% it was carried to the one planes, was not due to the thyroid. It is believed that in the decomposed cortex within the axolot! the protectytic enzymes became activated and the glutathione was set free. This stimulated oxidation-reduction reactions, while the cortical hormone -... --------= ---fective than the cortex from thyroidectomized mice (which produced only exophthalmia) or the cortex from mice fed thyroxine. Implantation of thyroid gland from normal mice in the axolot also brought about metamorphosis at once. The majority of cases reached the 2nd phase, and in a few cases the process was entirely completed. Implantation of cortex from mice fed thyroxine caused a deplantation of metamorphosis in 25% of the cases. In 50% it analysis of the cases. In 50% it analysis of the cases. -00 -00 -300 --layed metamorphosis in 25% of the cases. In 50% it ap-... ASB-SLA BETALLURGICAL LITERATURE CLASSIFICATION ---TREES HOW AND I 130m ZJA:B31AM -671111 CE

MOTIVE, H. L.

"The Biological Operation of E-Ions and Ionzits (Decomposition Froduct of Vitamin A)," Dok. AN, 30, No.9, 1941.



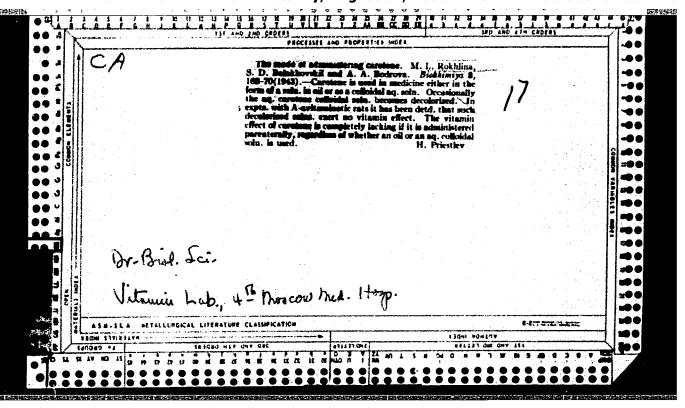


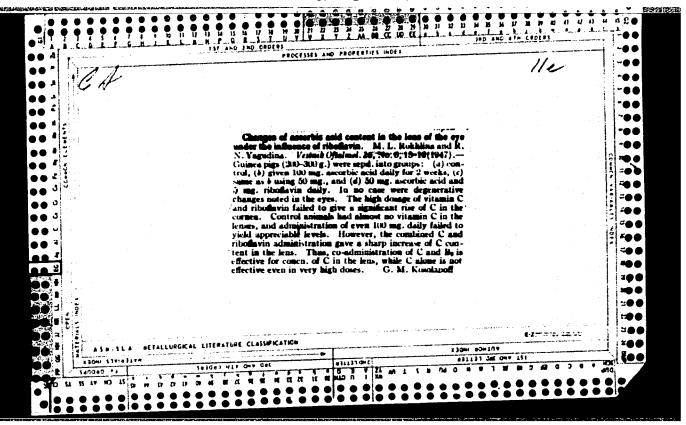
ROKILLIM, M.L.

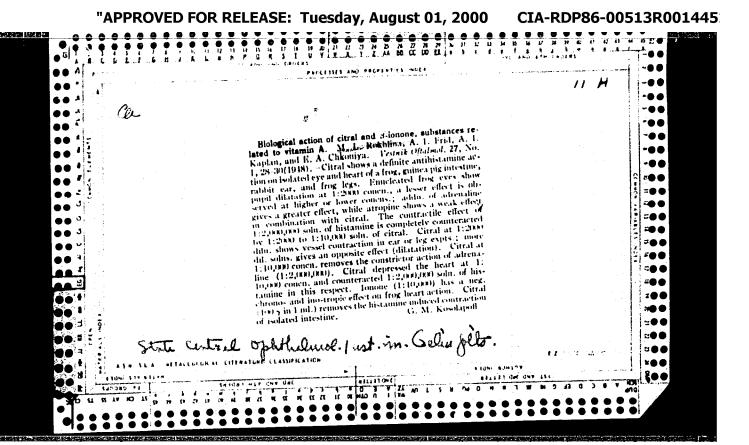
SEPTIM.

"Changes in the Structure of Suprarenal Cortex as Caused by Endocrine Glands" (p.224) by M.L. Rokhlina (Moscow)

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XV, 1942, No.2







ROBERTIEL, N. L.

The Importance of the Michurin Doctrine," Fel'daher i Akusher., No. 4, 1949; Dr. of Piol. Sci. Prof.

"New Antihistamines - Citral and Beta Ionine," Sov. Ked., No. 8, 1949;

Central Cphthalmological Inst., imeni Gel'mgrol'ts, -c1949-.

ROBILLA, M.L.

tem. Contrary to the idea of some capitalist organs has an adverse effect on the nervous sysorganism. Conversely, malfunctioning of internal ances in the function of internal organs of the higher nervous activity, accompanied by disturb-

it is practiced under unfavorable social condiscientists, moderation will not prolong life if

ROKHLINA, M. L., Prof.

PA 237T5

USSR/Medicine - Geriatrics

Extending the Duration of Life," Prof M. L.

"Fel'dsher i Akusherka" No 12, pp 3-10

States US scientists engaged in inhuman activivery favorable conditions, there are 30,000 people ties and nefarious propaganda. In USSR, due to

Dec ž

ROKHLINA, M. L.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R00144

Rokhline (G. R. Acad. Sci., U.R.S.S., 1983. 373—376)

Freezing-microtome sections of retinae of frogs given excess riboflavin (0-1 mg. in 6—10 days) showed bright yellowish-green
fluorescence of the rods and cones in both light-adapted and darkadapted states, and in the dark-adapted state of the pigment
epithelium also. Frogs not given excess riboflavin showed no
green fluorescence except for vitamin A in droplets in the pigment
epithelium. Retinæ of rats on a normal diet sometimes showed a
yellowish-green fluorescence in the rod and cone layer. This was
absent in riboflavin-deficient rats and augmented in rats fed excess
of riboflavin. Chemical estimations of riboflavin in whole rat
retinæ showed that it was more abundant in the dark-adapted
(mean 1-54 y) than in the light-adapted (mean 0-63 µg.) state.

G. S. Brindley.

systems connected with them play a significant part in the aging process. Pavlov stressed that

the cortex, the large hemispheres, and other tablished that the nervous system, particularly possibility for successful efforts toward pro-

Pavlov and his pupils have es-

the causes for premature old age, creating the

logical, (premature). Pavlov's principles revea

whose age exceeds 100 years. There are 2 kinds of old age, physiological (normal) and patho-

systematic mental or physical work causes no ex-

maustion of the nervous system. Cells of the cor

exertion results in exhaustion and breakdown of tex have limits to their capacity, however. Over

State Schubble - Personale Inch of Rye Library

BOKHTINY

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CI

CIA-RDP86-00513R001445

TORTICINET, IN L

USSR/Medicine - Pharmacology

FD-2515

Card 1/1

Pub. 17-14/20

A CONTRACTOR OF THE PROPERTY OF THE PARTY OF

Author

: Rokhlina, M. L.

Title

: Amount of vitamin C in the tissues of the eye after its administration by electrophoresis or by subconjunctival injections

Periodical

: Byul eksp biol i med. 4, 54-58 Apr 1955

Abstract

Investigated the efficacy of administration of vitamin C into the eye by electrophoresis and by subconjunctival injection. Compares change in amount of vitamin C in the eye of guinea pigs after above methods of administration. Photographs; table. Six references, all USSR (5 since 1940).

L. "itution

: Scientific-Research Institute of Eye Diseases imeni Gel'mgol'ts

Sibmitted

: May 12, 1954 by B. A. Lavrov, Member of the Academy of Medical Sciences USSR

ROKILINA, M.L.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00144

The influence of pantothenic acid and vitamin Bepyridoxine upon the regoneration of corneal epithelium. M. L. Rokhlina and T. V. Zubareva (Gel'mgolts lint. Eye/) Discusses, Moscow). Byall. Exptl. Biol. i Med. 40, No. 10, 58-00(1955).—Pantothenic acid and pyridoxine in suitable doses accelerate the regeneration of epithelium in corneal erosion. A. S. Mirkin.

。 1. 10 出版的 2. 10 元, 12 元, 13 元, 13

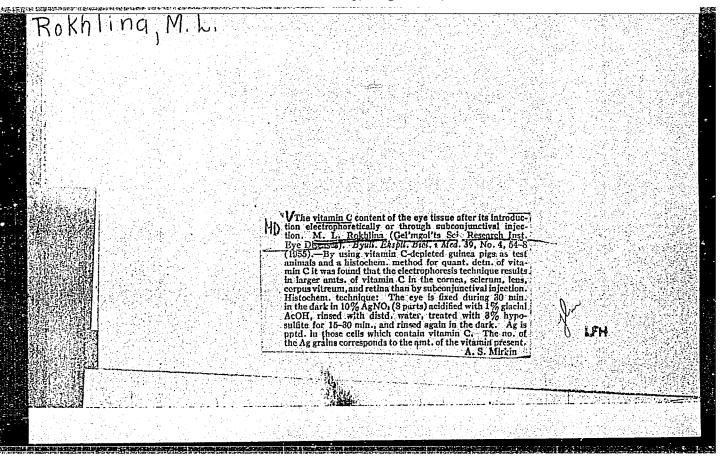
HOKHLING, M.L.

Some characteristics of the course and clinical aspects of manic-depressive psychosis in old age. Zhur. nevr. i psikh. 65 no.4:567-574 165. (MIRA 18:5)

1. Klinika psikhozov pozdnego vozrasta (zaveduyushchiy - doktor med. nauk E.Ya. Shternberg) Instituta psikhiatrii AMN SSSR, Moskva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

inie-postusorepainier ir de la line is pais constant pur constant in la recommanda de la constant de la consta



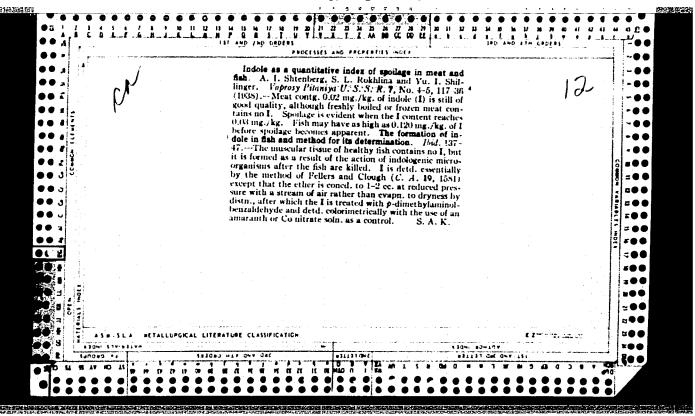
VANECEK, J.; KUCHEL, O.; VOHNOUT, S.; ROHLING, S. The control of humorally isolated circuits by means of isotopes. Rev. Czech. M. 3 no.4:337-340 1957. 1. Chair of Pharmacology, Faculty of Paediatrics, Prague. Director: Prof. H. Raskova -- Third Clinic of Internal Diseases, Faculty of General Medicine, Prague, Director: Academician J. Charvat -- Institute of Endocrinology, Prague. Director: K. Silink. (KIDNEYS, physiol. eff. of pituitrin on interoceptors of isolated perfused cat kidney, mechanics & control of perfusion circuits.) (PITRUITARY GIAND, POSTERIOR, hormones pitruitrin, eff. on interoceptors of isolated perfused cat kidney.) (PERFUSION mechanics & control of isolated perfusion circuits)

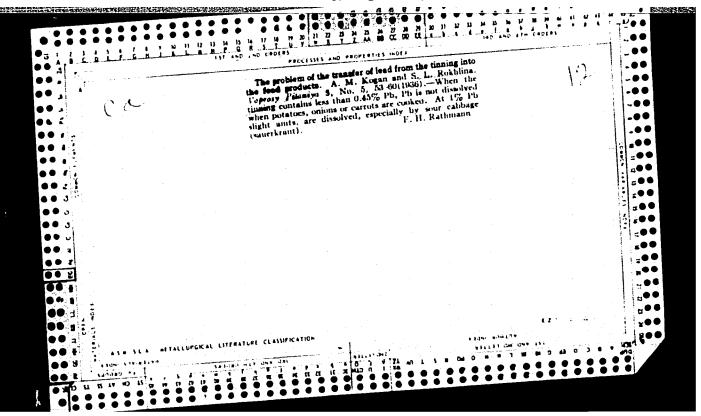
VOHEOUT,S.; ROHLING,S.; HAVELKA,J.

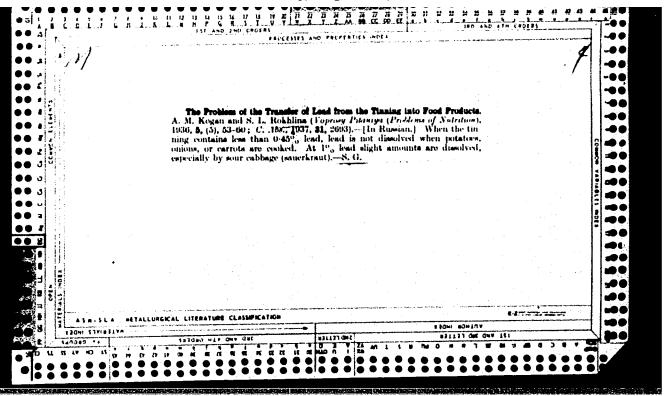
我的心理性的。1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1200年的1

Dosimetric problems associated with the examination of thyroid function by means of radioiodine. Rev. czech. med. 10 no.1: 17-30 '64.

1. Research Institute of Endocrinology, Prague; director: doc. K.Silink, M.D.







ROKHLIS, M.S.

State standard on gray iron castings. Lit.proizv. no.2:46 F
'60. (MIRA 13:5)

(Iron founding--Standards)

RAPOPORT, S.A.; ISTOMINA, M.M., nauchnyy sotrudnik; ROKHLOV, B.G., nauchnyy sotrudnik; BUZINA, G.V., nauchnyy sotrudnik.

Continuous process of producing sugar paste for confectioneries.

Trudy VXNII no.9:120-133 '54.

(Confectionery) (Pastry)